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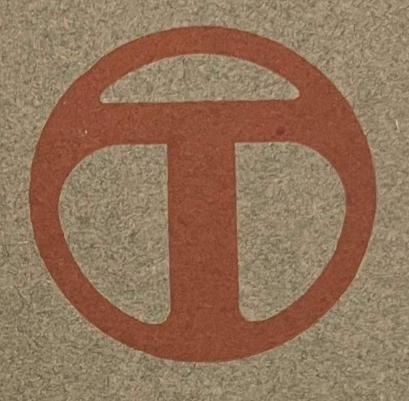
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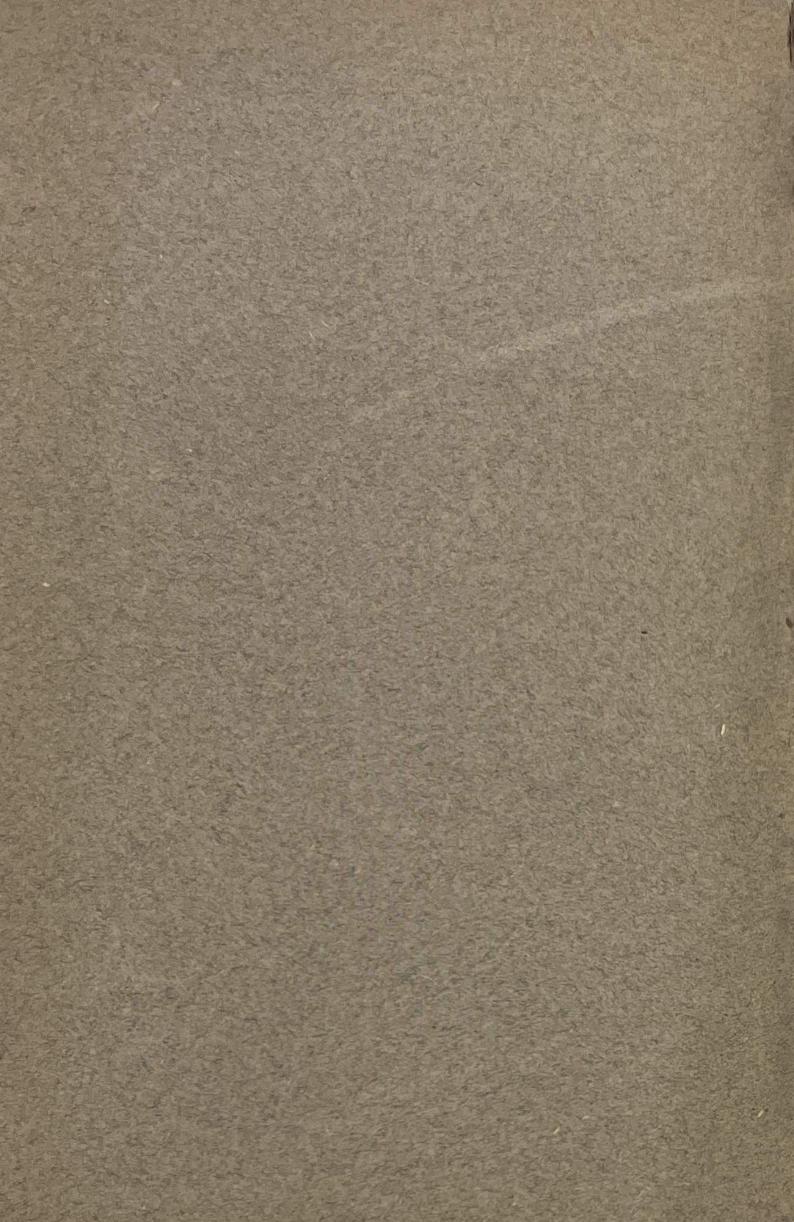
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January and February, 1905





HAND AND MIND.

Vol. III. Washington, D. C., Jan. & Feb., 1905. No 4.



The news of the resignation of our faculty adviser, Mr. Matterm, and his assistant, Mr. Outwater, was received by all with many regrets, owing to the loss of a pair who have faithfully and untiringly promoted the welfare of our Athletics. The standard which we have attained through their faithful services, both as far as honors and finance are concerned, gives their successors a basis on which to build. And we feel assured that both Mr. Dunning and Mr. Illmann will continue to raise this standard so long as they have the hearty co-operation of the student body.

The second annual meet, the purpose of which is to prepare the men for the games to take place in the Spring, was held in Convention Hall on Saturday, January 28th.

As far as our school is concerned the event was most successful, our boys capturing four firsts, among which were the coveted shot-put and half-mile. The winners of points deserve the greatest credit, while to all who tried and failed we repeat the adage, "Try, try again," and in strictest confidence tell you that among your numbers are several to whom we look for great things in the future.

As soon as the weather becomes favorable, candidates for the Base-ball team will be called, and we hope for a hearty response. As yet the grounds have not been decided upon, but they will be arranged in due time. The official Championship schedule is as follows:

Tech, May 2, Eastern Central, May 5, Business. Western, May 9, Eastern. Tech, May 12, Business. Central, May 16, Western. Eastern, May 19, Business. Central, May 23, Eastern. Tech, May 26, Western. Western, May 30, Business. Central, June 2, Tech.

All dues for the remaining months of the year will be accepted and season tickets will be issued accordingly.

GIRL ATHLETICS.

The much-longed for "gym" has at last been given the girls of our school. Every Wednesday afternoon from three to five the room devoted for gymnastics at Seventh and L streets is well filled with eager and enthusiastic girls. Miss Dobson, the well-known physical culture instructor, is there each Wednesday to lead the girls, and even in so short a time much has been accomplished. The possibility of having an indoor meet this spring has intensified the interest. and the desire to take advantage of the opportunity open to them has increased tenfold. It is a well equipped "gym," with all necessary apparatus, and there is every inducement for the girls to show their appreciation. Every girl of the Technical High School is invited to share the pleasures and benefits the "Gym" offers.

After the Western game the Basket-ball team was delightfully entertained by Miss Hartman at her apartments

on Chapin street.

A luncheon was given the team by Miss Hiene, the captain, at her home during the Christmas holidays. All the members were present, and a most enjoyable afternoon was spent.



REGIMENTAL NOTES



In the past two months the regiment has materially improved; there is already considerable rivalry among the captains, and the keynote is still progress. The competitive drill is drawing closer; all who would stand a show must work.

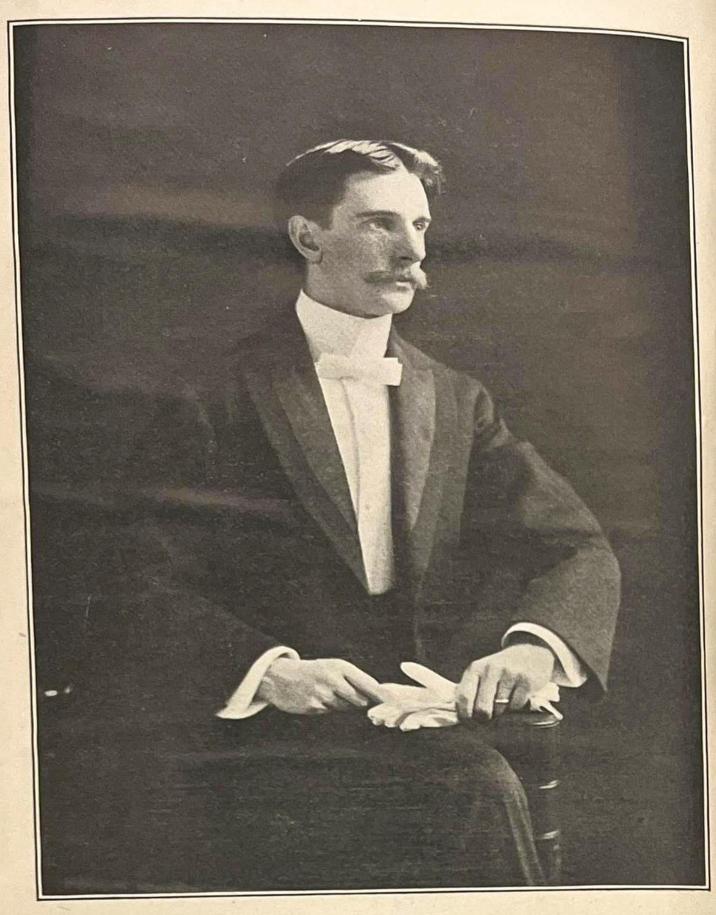
It is still uncertain whether or not the cadets will form part of the parade on March 4th, but the probability is that they will. If so, they will immediately follow the military portion instead of being part of the civic organization as heretofore.

The frequent indoor drills, due to the bad weather, have a marked tendency to cause the companies to lose interest. To prevent this several companies have had individual competitive and platoon drills.

The "Tech" companies are rapidly reaching a high degree of accuracy and proficiency. They are uniformly good. Several of the captains are slightly in the lead in the Third Battalion.

In a recent drill between the companies of the First Battalion at Central, Company "I," under Capt. Richards, came out at the head. At Eastern, the large seven squad company (Capt. Linthicum) is progressing rapidly. Despite the many difficulties under which the Business captains labor, their companies are doing very well. The Western captain, Campbell, believes that hard work counts, and the resul's of his efforts to make a good company amply justifies his theory.

A bibulous scholar one noon
Who finished his dinner too soon
Dropped a crumb on the floor;
But he'll do it no more,
For they made him sweep up like a "coon."



CLARENCE M. HALL Head of Physics Department.



MODERN PHYSICS

Its Importance to the Young Man of To-Day



Some years ago the person who indulged in a course in physics in the high-schools did so under the impression that he was merely obtaining one of the finishing touches to his "polished" education, and he viewed such knowledge as he chanced to pick up, in his casual glimpse of the subject, with about as much respect as he would have bestowed on a course in "bugology." And the person who would have elected to spend parts of his entire four years on the subject would have either been admired for his eccentricity, or viewed with pitying contempt for his lack of forethought (?) in choosing his subjects. In those days the standard education consisted of: an abundance of Latin and Greek, a dabble in such other branches as might be at hand, and just enough knowledge of English to enable him to display his ignorance about everything in general.

Since then we are glad to state times have changed. A thorough knowledge of English has at last been accorded the proper place as the backbone of every course of study, but unfortunately the nation has been a little slow in recognizing that the next place belongs to Natural Science and its inseparable accessory, Mathematics. This delay is but natural, as we are ever slow to acknowledge our mistakes, and all great reforms are carried out against great opposition and through long periods of time.

But if we only compare for a moment the advantages of

a knowledge of the dead languages with a knowledge of the laws of nature, we ought at once to perceive our proper course. The study of the ancient classics was instituted at a time when men's ambitions were limited to literary or religious achievements, and to such ends the value of a classical course cannot be overestimated, but in the practical life of to-day such scholars are few and far between. day Latin is chiefly useful as a means of deciphering such stray quotations as we may encounter in our literary ramblings, and we are doubtful whether it causes us more personal annoyance to view with a blank expression the motto. "Sic semper tyrannis," or to stare with an uncomprehending eye at the allusion to an "over-compounded, split-pole generator with series compounding-rectifier." The ancients expressed their noble thoughts in Greek and Latin simply because they did not know any better, and we have no cause to doubt that if they had lived to-day they would have found the English language perfectly satisfactory as a means for pouring forth their effusions. And everything that they said worth repeating has been translated into English for our use by scholars, who had more time in which to do such things than we have. As for the argument that the study of Latin makes one more fluent in his use of English, we have little to say except that we unfortunates who are denied such a blessing manage somehow to blunder along and make ourselves understood in Common English, while our "Latin-trained" brother, who may, perchance, become involved in a scientific discussion, is much like a forlorn hope lost in a fog. Of physics we have but to say that it deals with the very laws of nature and their application, that ever widening field which the ancients themselves loved to discuss, which is at the bottom of our modern life, and which bids fair to increase indefinitely as long as this world of ours holds out.

To illustrate the modern methods of teaching physics we will briefly outline the course as taught in our own school, a place so strictly "up-to-date," that the calendars are all torn off three days ahead of time, so as to be on the safe side. The course here is divided into four years' work, each course consisting of four periods a week; two in the laboratory and two of lectures and recitations. The courses are: first year, beginners' physics; second year, advanced physics; third year, elementary steam; fourth year, applied electricity. The first two years' work embodies the fundamental course in physics, and contains all the college requirements. are all that the school requires for graduation, provided other branches are substituted for the higher work. It is, however, in the third and fourth years that the most interesting parts of the course are carried out. In the "steam" course the student is taught both the theoretical and practical sides of the subject. He is taught to plot and read curves, indicator-cards, etc., to understand and operate engines, boilers, furnaces, and their accessories, to measure horse-power, and, in short, all the elements of this class of work. In the latter part of the year other types of engines, such as air, gas, and oil engines are considered. As a climax to the year's work the student is given some special assignment to test his knowledge of the course, such as the design of a small machine-shop or power-plant. The diligence with which the boys apply themselves to this task shows that they derive a certain personal exhilaration in solving the problem when they realize that "the answers are not in the back of the book." A number of inspection trips are made throughout the year to plants about the city.

The fourth year's work in applied electricity is carried out along much the same lines as the steam course, its main object being to give the boys a good working knowledge of practical electricity. In the laboratory such experiments are performed as the calibration of an ammeter, the study of an isolated power-plant, and the compounding of a shunt dynamo. Practical work is also given in installing motors, lamps and wiring systems, and the construction of apparatus. Inspection trips to outside plants are made and the students are given the privilege of attending the meetings of the local branch of the American Institute of Electrical Engineers, where they may hear the discussion of the latest engineering practice. The positions which graduates of this

course have obtained speak well for it.

We might add that the spirit of the entire four years' course is one that tends to subordinate such experiments as measuring the length of a light-wave to the more practical and more interesting questions of determining the horse-power of an engine or the efficiency of a dynamo. As for the difficulty experienced in mastering the course, we might say that contrary to the familiar physics law of "inverse squares," as the "law" "increases directly as the square of the distance," might be more aptly applied. To those, however, who at first master the elementary physics the upper branches may be mastered with a fair amount of perseverance, but to learn these higher courses without first knowing the elements is about as simple as to run a footrace before we learn to walk.

In conclusion, we might state that the instructors in this department are young men, graduates of the best engineering schools, well qualified and are abreast of the times in the new phases of their profession. The director of the course, Mr. Hall, is an E. E. graduate of Worcester Tech, class of '98, and, in addition, has had several years of practical experience in different branches of engineering work. His three associates, Mr. Adams, Mr. Dunning and Mr. Weidemann, are also college graduates, with special adapta-

bilities for the work at hand.

HAND AND MIND.

Vol. III. WASHINGTON, D. C., JAN. & FEB., 1905. No. 4

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Literary contributions are solicited from all, both pupils and alumni. All matter should be written in ink, on one side of the paper only, and addressed to the Editor.

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EDITORIALS

"From Harmony, from heavenly harmony, This universal frame began."

So sayeth the poet, and if so colossal and well regulated an institution as our universe depends on harmony for its well-being we may safely conjecture that so small and yet, to us, so important an object as our school paper cannot

exist without it. We, the members of the staff of the HAND AND MIND, would like it distinctly understood by all, from faculty to smallest pupil, that this is not a partisan paper, and, at least, as far as lay in our power we have attempted not to make it such. Our aim is, has been, and ever will be, as long as we are in control, to publish a paper of the pupils, for the pupils, and by the pupils; one that would be, therefore, as interesting as possible to scholars and teachers alike. Although the paper is managed by the fourth-year class, it is not, as a paper, limited to that class, but should represent the entire school. If you of the lower grades are not so fully represented as you should be on these pages, it rests on your own heads, as such news can only be contributed by yourselves, and up to the present there has been a sad dirth of such contributions. To the fourth-year class we would say your interest has not been as great as it should be, and that unless we have the co-operation of all this paper cannot continue to be a credit to the class and to the school. We want more news.

The student in a Manual Training School such as ours has placed upon his shoulders a responsibility not felt by his brothers in the academic institutions. We refer to the care of apparatus and machines.

Books, though often neglected, are seldom actually injured. But quite the reverse is true as regards scientific

and mechanical equipment.

We would bring to the attention of every member of the school the fact that each machine and piece of apparatus is placed in the shops or laboratories for your individual use. In recognition of this privilege is it too much to ask that you pass it on to the next user in as good condition as you received it? Such a policy would be a means of great time-saving, and in the case of the shops a most efficient preventive for "D's."

It is not rational to ask why the diamond point is given as a forging exercise, and then its use as a machine tool forbidden?



ALUMNI



As a school grows older, and as year after year classes graduate, it becomes impossible to keep track of those who pass from the school and enter other pursuits of life. The unity which marks the four years of association in the High School becomes at once dissolved when those years have passed. New associations are formed and new friends made by those who graduate, but no matter how many years may pass, no matter what associations may be formed, the graduate will find it impossible to forget the old days spent at Tech. Some sweet and some bitter recollections remain imbedded in the mind, to bring back in later years, the fond memory of truly happy days.

Our graduates are found all over the country. The colleges claim them as far west as California. Business claims them even as far as the Philippines. It is well to be able to state that the large majority are following out technical work, for which their training at this school has so aptly prepared them. Many graduates are still in Washington, and a number of these are classed among the students of

George Washington University.

The holidays brought many familiar faces home from college, and the boys found themselves walking mechanically toward Seventh and Rhode Island avenue.

We were all glad to see in the line-up of the Lehigh football team this past fall the names of Richard Senior and Everett Ballenger, two old and well-remembered Tech men

It would be useless to try to give the pursuits of each graduate. It is enough to say that each one is up against it, either at college or at work. Undoubted'y they have often wished for the old days again and singing to themselves:

"Backward, turn backward, O time in Thy flight, Place me at Tech again, just for to-night."



SOCIAL



Three dances have taken place since the last issue of the paper, two "Tech" and the Regimental. The first of these, that on December 27th, and known as "The Christmas Dance," is considered by many the most successful function of the year. The Regimental was, as it was intended to be, a union of all the high schools, each one being well represented.

The comparatively small attendance at the last "Tech" dance was due principally to the fact that it took place on a school night.

The class of 1904 held its first reunion on Wednesday evening, December 28th, and met as a class for the first time since its graduation last June. Through the courtesy of Mr. Chamberlain, the class was granted the use of the school for the occasion. A business meeting was held in Class Room II at 8:30, where sixteen of the members were present and took part in the election of officers. Mr. Schultze was elected president, Miss Hastings and Mr. Smallwood were re-elected vice-president and treasurer, respectively, and Mr. Turner was made secretary. As soon as the meeting was over the members adjourned to the mechanical drawing room, where, together with their friends, the evening was spent in an enjoyable manner. Mr. Chamberlain was present, and made a short address. Mr. Gardner was expected, but was unable to keep his engagement, owing to illness. In the early part of the evening Miss Hastings read a very interesting letter from Col. Huddleson, the first president of the class, now a corporal in Co. H, 29th Infantry, Fort Douglas, Utah. those present were glad to hear from Col. Huddleson, and only regretted that he was unable to be present at the reunion. The remainder of the evening was spent in dancing, and after each number several members of the class were called upon to tell their experiences since leaving school. Some very pleasant and amusing stories were told of freshman days at college by Messrs. McElfresh, Ballenger and Mathers, of Lehigh, and Conwell, of Purdue. Later in the evening refreshments were served, and then more dancing was indulged in. The evening was brought to a close by a Virginia reel, in which all took part, and which was the source of much fun. The success of the reunion rests very largely with Miss Hastings, who worked conscientiously to make the attempt successful.

THE PRESIDENT OF THE CLASS OF 1904.

EMANON CLUB.

At the residences of Misses Lawton, Jones, Yeatman and Swart the members of the Emanon Club have assembled and spent most enjoyable evenings. At all the meetings games were played, followed by dancing, while at the last three meetings vocal selections were rendered by the Emanon Quartet. A committee, composed of Mr. Caywood, Chairman; Mr. Garrett and Miss Jones, has arranged a dance, to be held at Mrs. Dyer's on the 14th of April, which it is hoped it will be patronized by the students and teachers of "Tech." A vacancy having occurred, Mr. Stanley Milliken, an old student of "Tech," has been initiated into the orders of the club.

S. H. A.

At the last meeting of the S. H. A., Mr. Seidenspinner was formally initiated. There is one more vacancy owing to Mr. True's having left school, which will be filled by a member of Tech, to be chosen at the next meeting. Mr. Garner will be appointed secretary.

L. T. B. P.

The L. T. B. P. Club gave a box party at the Lafayette Theatre one Saturday afternoon in January. The two boxes occupied were draped with crimson and gray, and the same colors were worn by the leading lady. The party was a very successful one, and future ones are looked forward to with much pleasure.

M. H. M.

The M. H. M.'s have celebrated their usual number of meetings. In all cases they were executive, and, therefore, nothing definite can be said about them.

THE THREE WITCHES.

In keeping with the studies of the school three members of A³ and B³ have joined hand in hand and called themselves The Three Witches. Since organizing they have held two meetings. In each case the refreshments were prepared by the witches, alone, with all the ceremony and mystery of the Witches of Eld. At the last meeting Hecate joined the trio and will continue to act as the adviser in the future.

Some of the pupils of "Tech" spent a pleasant evening at the home of Mr. Kubel, G¹, on Monday evening, February 13, 1905. Games and dancing were indulged in until a late hour, when refreshments were served. The first prizes

were awarded to Miss Townsend and Mr. Rodier, while Miss Daw and Mr. Byrne had the honor of receiving the booby.

Those present were: Misses Daw, Tabler, Townsend, Wagner, Sappington, Swart, Burdick, Bane, and Messrs. Bartlett, Byrne, Berkeley, Daniels, Eccerson, Rodier and Jaegar.

A business meeting of the F. S. C., recently formed in G¹, was held at the residence of Miss Daw on Friday evening, February 10th. The officers elected were: Miss Daw, President; Mr. Kubel, Vice-President, and Mr. Berkeley, Secretary and Treasurer. The next meeting will be held at the home of Miss Grace Swart.

The members of G¹ were entertained by Miss Warn Saturday, February 11th. About forty of the section were present. A valentine box was one of the features of the occasion, in which many pieces of art were hidden. Charades and games filled the evening.

IN THE BASEMENT.

Some young Thespians of C²
Were giving the "Three Witches' Brew,"
When by way of diversion
They made an insertion
Of a dance called the "Hoochee Koo Choo."

When the bell rings and the talking must cease, From the floor you must pick up each piece Of paper and lunch, Or you're nabbed in a bunch By Hawkshaw, the Chief of Police.



SCHOOL NOTES



Miss Brandenburg: "Give an example of alliteration?"

Pupil: "Piff, paff, pouf."

Miss B.: "Correct. Another."

Mr. T-t, E1: "Me, Him, and I."

Some one suggested at the next orchestra rehearsal that the trombonist be placed in the adjoining room. "Distance lends," etc.

Any one in search of a small, white, fluffy dog may obtain information from Barber, C3.

Some one has asked if a Cadet (kiddette) is not a small kid.

A suggestion has been made that Miss Hartman be given a cat and a teapot to keep her clock company.

Wanted: A Mary for the Lamb.

A noise was heard in the engine-room by the 4th-year physics class. After the echo had died away it was discovered that the voltage had dropped.

Miss H.: "What tense is that, Mr. B.?"

Mr. B.: "Past Future."

Mr. Daniel, in 4th-year mathematics class: When you conceive of something infinitely beyond your conception, why, you simply can't conceive of it at all.

In English recitation: "The Trojans made a horse which was hollow on the inside." Query: How could it be hollow on the outside?

Mr. Dunning: "How would one find the sp. gr. of the human body?"

Mr. Berkeley (in a low tone): "Jump overboard."

Mr. Outwater: "I will hold the class responsible for what I am saying."

Class: "Not so with us."

Mr. D.: "What are you doing, Miss H——?"

Miss H—: "I am trying to get these force pumps into my head."

It is rumored that Miss Teuber is going to place a donation box at her front door; will the officers kindly aid in replacing such furniture as may be broken after drill? This, of course, includes purloined horse-weights.

McCarthy, of A3: "Have you received permission to breathe?"

Miss Hartman suggests that the boys of A³ go down on D street to cultivate their German. This, perhaps, was Pimper's idea originally.

Mr. Crisp, of A³, has found many new and interesting chemical compounds. Wonder if he knows them by name.

One of A3's boys says that when ever he sees one of those brown bottles in the Free-hand Drawing room his head begins to swim. Bad off!

Mr. Murray, E², believes in plain English. One day he said: "The Friar was found in the cellar drinking booze."

One of E2's scholars gives the three sources of heat, radiation, connection, and deduction.

Death angel, to E2's question mark:

"Welb, it is time for you to pass into the next world."

Welb: "Why should it be?"

Murray, of E2: "They dug a hole in the ground until they struck the bottom."

Miss Christiansen: "Who followed Edward VI to the throne?"

Mr. Spring, E2 (sleepily): "His successor."

Miss C.: "How bright!"

At last the "Tech" Orchestra is a reality. A few rehearsals have been held, and, considering the numerous disadvantages to which the members are subjected, they have been quite satisfactory. From inquiry it seems that this is the sole independent organization of its kind in the High Schools of this city, this fact being the more commendable when the nature of the school is remembered. Rehearsals are held each Friday at 2:45 in the Free-hand Drawing room; all pupils wishing to be present being welcome, provided their conduct does not interfere with the work of the orchestra. Many thanks are due to both Mr. Kleupfel and Mr. Dunning for devoting their time and labor towards the enterprise. The officers are as follows Conductor, Mr. Kleupfel; President, Mr. Dunning; Concert Master. Mr. Lansburgh; Secretary and Treasurer, Miss Hodges, and Librarian, Mr. Bell.

In the Christmas contributions for charity Tech was easily the leader, \$89 being her offering to the fund. Surely, this is a cause for just pride.

An F' Tale.

It was a Holiday. A Shepherd boy was resting in the shade of a Rose tree, under which grew a quantity of Maiden's Hair Fearns. A Boordman of True character came up the path, carrying a cask, the contents of which were All wine. His face was of an Ashly hue and he looked very much out of sorts. He stopped and said: "I can Trace Well the evil of that Muddy man with the Beall, whom I met by the way. I Warn you against his coming." He then went his way.

LINES OF DEJECTION.

(Inspired by the Chipping and Filing Block.)

Bing ! Bang! Biff! Gee, I'm stiff, Hang the thing! Wish the bell would ring. It's just hit and hit, I'd like to quit. No, this is not recreation. It's higher education, With a hammer and file, Don't smile. If you were in my place you wouldn't, At least, you couldn't If you wanted to pass In this class. By gum! Hit my thumb. Guess I'll stop And leave the shop-"Here, son, don't shirk, Get to work." Very well. Oh, mv!



EXCHANGES.



We received a number of Xmas presents in the form of attractively gotten up exchanges, for which we return due thanks. The following are those received: The Review, The Balance Sheet, the Easterner, and The Western, of Washington, D. C.; The Nautilus, Jacksonville, Ill.; The Cherry and White, Williamsport, Pa.; The Red and White, West Raleigh, N. C.; The Review, Streator, Ill.; The Radius, Kansas City, Mo.; The S. H. S. Review, Shamokin, Pa.; The Beacon, Chelsea, Mass.; The Mission, San Francisco, Cal.; The Archive, Philadelphia, Pa.

The Review of Central High School is a good example of

a paper for the pupils and by the pupils.

The Easterner could better its exchange column by more criticisms, the humorous side being well developed at present.

The Balance Sheet took a bracer during the past month.
The Christmas issue presents a fine appearance and shows
more effort.

The Western would be benefited by an exchange column.

The Archive is better this year than last in many respects.

The subject matter is divided into many well edited topics.

The Exchange editor of the Radius should look before he leaps. "Clippings" might head the exchange column.

The Red and White is an example of effort and interest on the part of one and all of its staff. The Mission is again pleasing in all its departments. Everything in the S. H. S. Review fits together well. It is a model in neatness.

Dullness seems to pervade the Beacon. It fails to attract

and to hold the attention.

Teacher: "How do you account for the phenomenon of dew?"

Boy: "Well, you see the earth revolves on its axis every twenty-four hours, and in consequence of its tremendous pace it perspires freely.—Ex.

Recitation,
Hesitation,
Pony balked,
Ruination.—Ex.

Lives of football men remind us

That they write their names in blood;

And, departing, leave behind them,

Half their faces in the mud.—Ex.

Boyabus kissabus sweet girlorum,
Girlabus likabus, want somemorum,
Pawabus hearabus, poor girlorum,
Kickabus boyabus out of the doorum.—Ex.

Teacher: How would you punctuate the following: "The beautiful girl, for such she was, was passing down the street?"

Bobby: "I would make a dash after the beautiful girl,"

-Ex.

A poor little fellow named Vaughan,
Was playing one day on the laughan,
When a whirlwind came nigh,
Took him up to the sky,
And none could tell where he had gaughan.—Ex.

"He scorched across the valley,
He scorched across the hill,
He scorched into a cable car—
Mayhap he's scorching still.—Ex.

An heiress, who lived in Dubuque,
Was courted and wed by a duque;
But the nobleman gay
With her wealth made away—
And she had to live out as a cooque.—E.r.

Old Maid (purchasing music): "Have you 'Kissed Me in the Moonlight?"

Sapphead: "Why-er-no. I guess it must have been the other clerk."—Ex.

Teacher: "For mercy's sake, don't you ever think? What's your head made for?"

Dull Boy: "Oh, just to keep my collar from dropping off."—Ex.

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DEPARTMENT OF MEDICINE

(a) Medicine: Four year course leading to the degree of Doctor of Medicine.

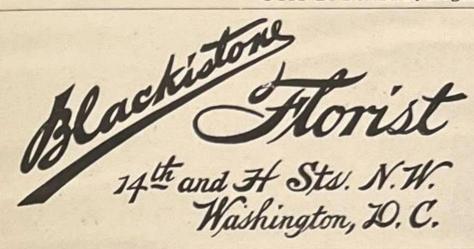
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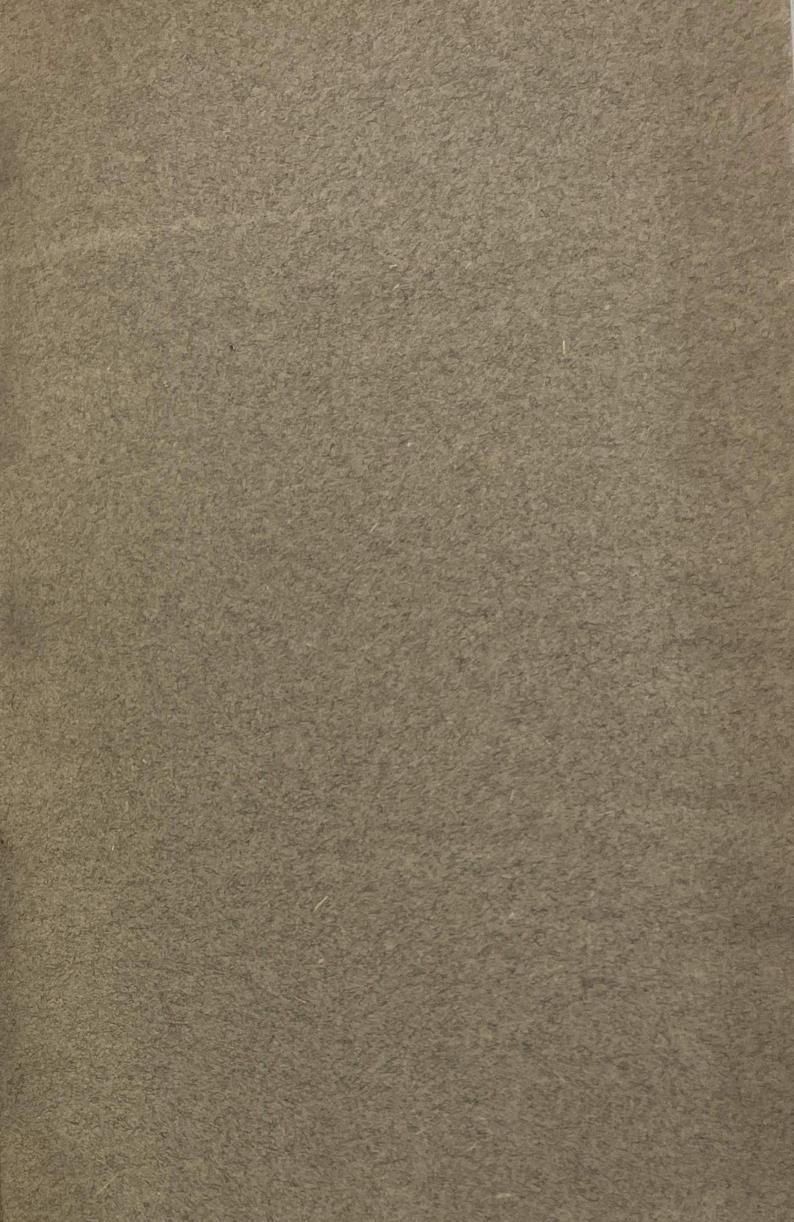
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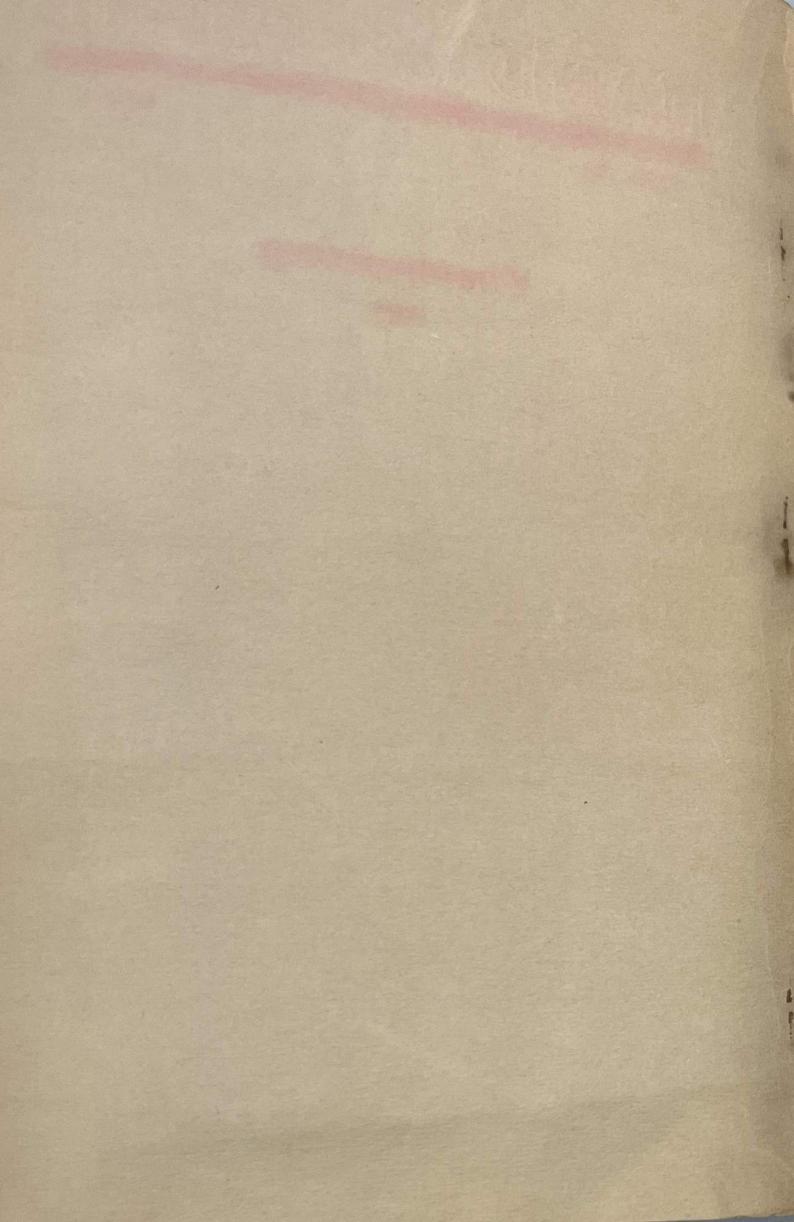
HAND and MIND

VOL. IV

NO. 1

Thanksgiving 1905





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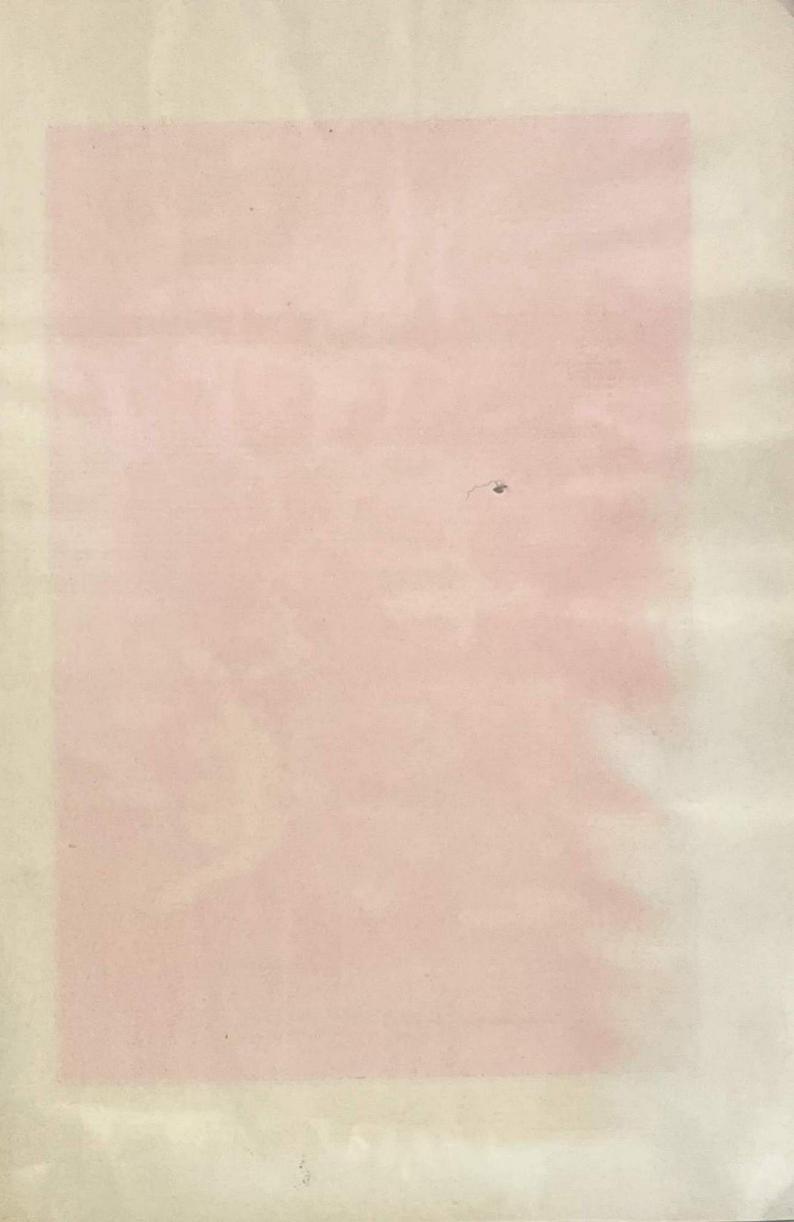
SPALDING'S OFFICIAL FOOTBALL GUIDE FOR 1905

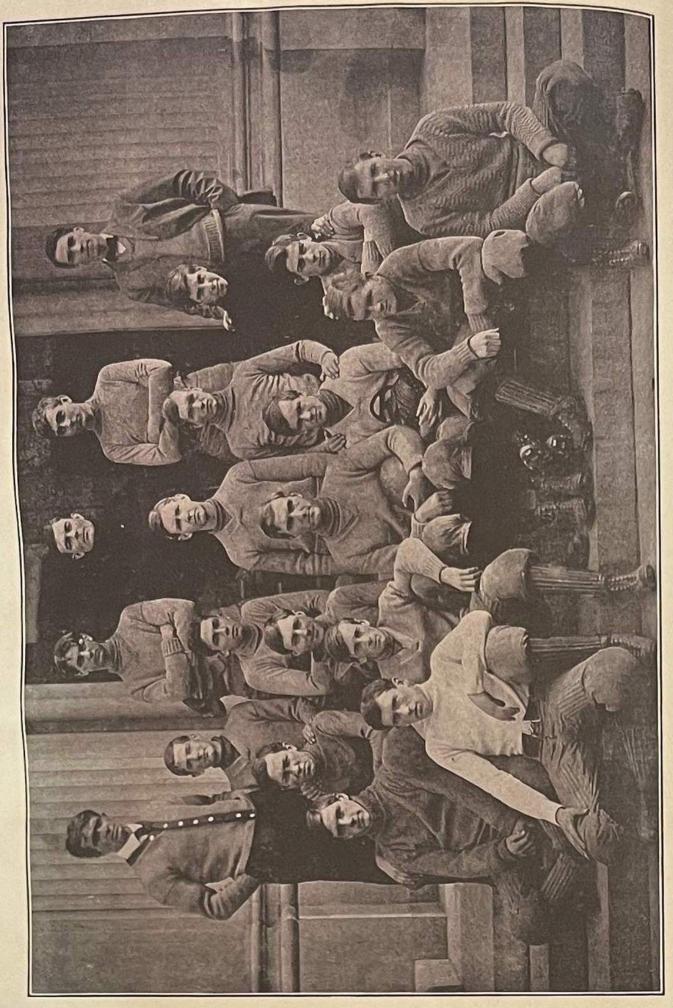
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HAND AND MIND is a Quarterly Magazine published for and by the pupils of the McKinley Manual Training School and its alumni.

Literary contributions are solicited from all, both pupils and alumni. All matter should be written ink, on one side of the paper only, and put in box.

All business communications should be addressed to C. D. Garrett, McKinley Manual Training School,

Subcription Price Per Year, Fifty Cents. By mail, sixty cents. Single Copies, Fifteen Cents. Advertising Rates sent on application. Remittance by Money Order preferred.

Entered at the Post Office in Washington as Second-Class Matter.

			STAF	F	No.	
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VIOLA NEAL, '07						Second Assistant Editor
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EUGENIE DENT, '06 .						Faculty Notes
Roy W. PRINCE, '03 .						Alumni Notes
Vol. IV Washing	TON,	D.	C., 1	NOVEM	BER :	30, 1905 No. 1

THANKSGIVING.

The time has come again when we are to give our offerings of Thanksgiving. We of the McKinley Manual Training School do wonder perhaps for what we are especially thankful? There is as yet no addition to the building, no assembly hall, no library, no gymnasium, no zoological and biological laboratories, no class rooms. Yet there is a great deal for which additional we are thankful: there is our excellent faculty, who constantly look to our good and make us as comfortable as possible in our crowded condition. We are more than glad to note a slight tendency toward the awakening of school spirit; we are thankful for our success in athletics; for our good companies, and for our general well-being. Let us all rejoice.

To our teachers, our school, and our better selves let us be loyal and encourage in one another a commendable school spirit, and a spirit of fraternity which will unite all our efforts for the glory of the school. Although we have passed through the season of football without winning any special laurels, we have made a record of which we need not be ashamed.

Our disappointment is lessened, however, by the opinions of others, and we gladly make room in this article for the following extract from the editorials of the Evening Times, the paper which the HAND AND MIND, in behalf of the Washington High Schools, desires to thank for its pleasant words of commendation:

"Playing the Game.

"An example of football at its best has been presented in the games played by the High School League, in the city of Washington. In their degree they inspired an interest as vital and created partisans as zealous, impassioned, and hungry for victory, as the games in which their elder brothers of the colleges play their gallant part. These school boys met and withstood their temptations, conquered their difficulties, and through a series of interesting and closely contested gridiron struggles always 'played the game.'

"The Times honors and commends them. The spirit of clean sport here in Washington and in the larger circles into which the high school players will penetrate has been benefited by their example. Among these boys manly strength and striving and determination to win have been held in check by an equal determination

to win only by fair means."

The popularity of "Tech," which is evidenced by the overcrowded classrooms, should itself make every pupil enthusiastic and inspire each with a determination to place her first in the list of public educational institutions.

The training of hand and mind, or, as one of our faculty well puts it—"mind and hand"—is properly considered of the highest importance, and, as between work and play, although no secondary place should be given to the former, but in every year the proper school spirit should animate us.

Forgetting the things that are past, let us remember that beyond in the competitive drill lies victory, and our gallant cadets should "1-2-3-4" with a grim determination to return to the halls of "Tech" the flag which Eastern so gallantly bore from the field last May. At the beginning of the term we were somewhat handicapped, only two companies being formed. Some of the boys were slow to enlist, as they did not know who were to be the officers, but now all is serene, the three companies are doing good work, and it will be surprising to some if the flag does not come to the third battalion.

In the loss of Mr. Philip F. Gerry the school mourns a most valuable teacher and friend. He worked for his school as few would have done, and by his influence uplifted "Tech" in most every line. To have him resign was a great blow.

Yet we have been given an able successor in Miss Ida M. Daly, formerly of the Eastern High School, one who has already shown her interest for the welfare of

our school.

Light-weight champion—Dishonest grocer.

Of "Hand and Mind."

The support of the school paper is herewith again brought to the attention of the student body. All we have to say is that we need more subscriptions and more contributions from the first, second, and third years.

That is all.

HAND AND MIND—of the pupils, for the pupils, and by the pupils of the McKinley Manual Training School—now begins its fourth year of existence, and we desire to make it a first-class high school paper. In order to do this the members of the staff need the support of every individual. At the close of last year it was decided to make the paper again a quarterly, as it was discovered that the school could not support a monthly. Certainly we do not want to abandon the school paper entirely for lack of subscriptions.

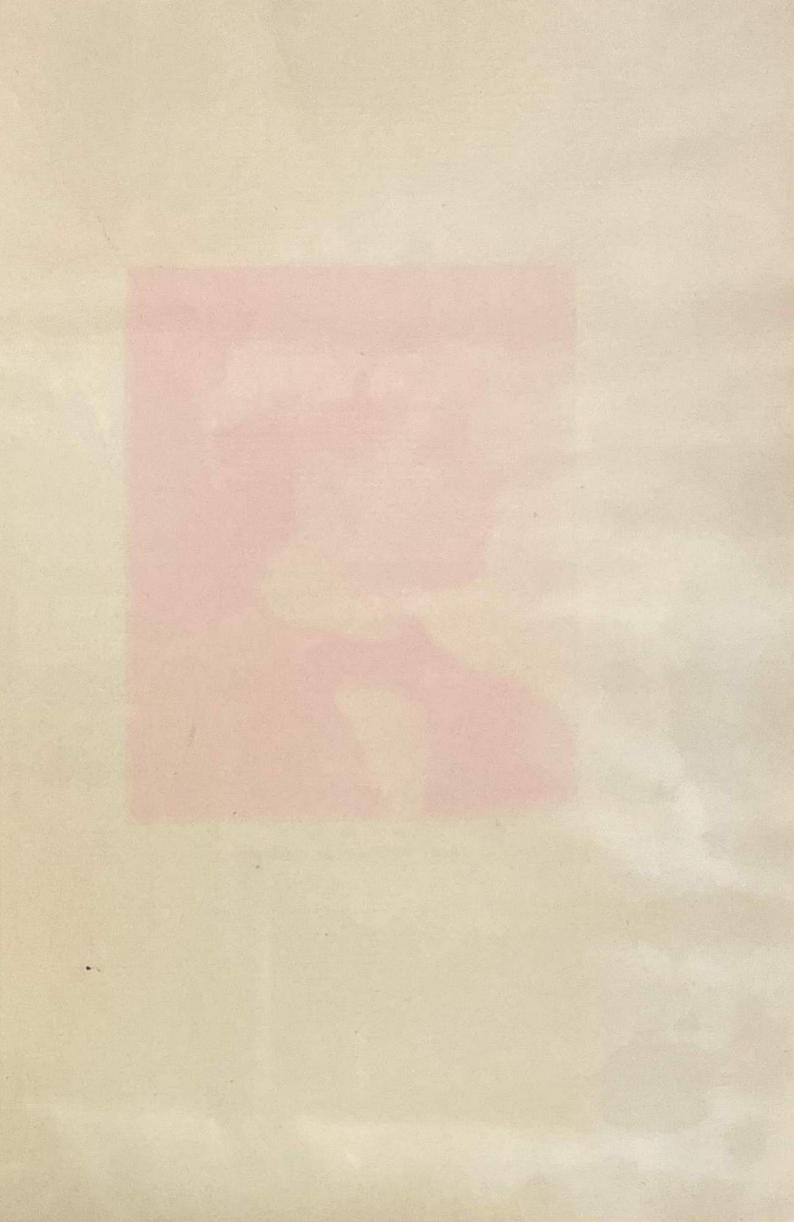
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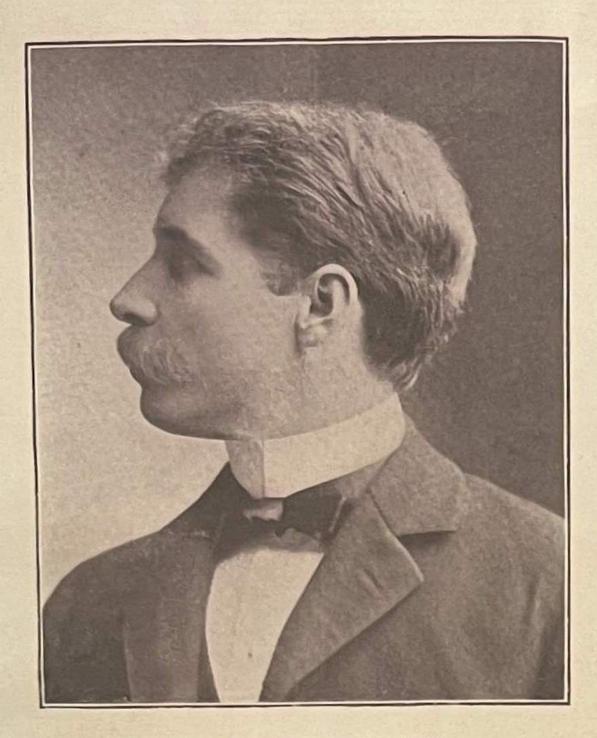
There has been promised a HAND AND MIND box to be put up at a suitable spot in the building and to be used for HAND AND MIND contributions. Keep your eyes open, and as soon as it appears deposit all notes and literary material which are of interest to the school paper into it.

We are promised also a poster frame, or, perhaps better, a bulletin board, in which all notices relating to

HAND AND MIND are to be posted.

The HAND AND MIND offers a prize of \$2 for the best suitable story written by a member of the school, to be published in the next number of the paper. • All are asked to contribute.





MR. PHILIP F. GERRY

MR. GERRY'S RESIGNATION.

To the intense sorrow of the whole school, Mr. Gerry left us at the beginning of the term. Although some of us had been fearing this for some time, it was beyond us to measure the full extent of our loss until the moment of departure of our most worthy teacher and friend, one who constantly wrought for the welfare of the school, the teachers, and pupils. It was with sincere regret that we bade him good-bye.

It is both wise and natural that a man possessing such brilliant qualities as those of Mr. Gerry should desire to enhance and broaden his career by accepting a position that offers wider scope for his talents. In entering the newspaper world Mr. Gerry has opened to him opportunities of which we know he will take full and

early advantage.

Although we miss the interesting English hours with him, it is our consolation that we shall still benefit from the example of his trenchant pen as he follows the "Star" of Destiny. For his sake we rejoice in his choice of a new career and extend our heartfelt wishes for his future success and honor.—The Senior Class.



THANKSGIVING.

Thanksgiving for the harvest full,

The orchards' mellow treasures,

The purple grapes, the golden corn,

And all the joys and pleasures;

And bounties rich and manifold

That make life worth the living;

For these, alike, the young and old,

Join in a glad thanksgiving.

Thanks to the Pilgrim Fathers, then,
Whose little goodly leaven
Works out through all the buried years,
This sweet foretaste of Heaven;
And to the Lord, whose bounteous gifts
Make life well worth the living,
Who dwells above, whose name is Love,
Be evermore thanksgiving!

Selection from "Thanksgiving," by Andrew Downing.

ATHLETICS

Football.

With the opening of the school year came the call for candidates for the football team. Over thirty responded and our prospects of another championship were bright. There was plenty of heavy material and Mr. Hecox's chief work was getting speed into it. He has succeeded well, but our best was not equal to the best of Western, and all our hopes were shattered by the defeat we suffered at her hands. There is no doubt in our minds that the best team has won. It has ever been so, and we have known twice by experience. We extend congratulations to our neighbors across the creek, and we promise them a game fight for next year's championship.

We can not attribute our defeat to the lack of spirit or good team-work. There was plenty of it. Again,

we say the best team has won.

"Tech's" first game was with Business. The team showed lack of speed, and did considerable fumbling, only running the score to 16-0.

The next game was with Western. It was there we met our Waterloo. Nothing could hold the Western team, and subsequent events have shown that nothing can. Western scored two touchdowns and kicked one goal, and "Tech" was not able to score.

The Eastern game was a tie, 6-6. Eastern showed up finely, and the general opinion is that with a coach they would have given Western a run for the championship.

The Central game was the finest exibition of foot. The Central game in the Inter-High School Series, ball seen this year in the Inter-High School Series, Though we did not win, our work was above Central's in the main. Their fine defense on the half-yard line was the most spectacular event of the game. Once or twice the umpire missed some flagrant cases of holding on their part when the interchange of punts took place,

McCarthy at right tackle played a superb game. His line plunging was great! As Coach Hecox said after. wards: "We didn't know he had it in him." Crook and Ellsworth at ends played finely, getting down the field on punts very fast. The backs, Small, Garvey, and Horner, were in the game every minute. The center trio, Howland, Doran, and Hart (the latter a second-year-man) were almost invincible, very few gains being made through them. And last, but not least, was our great captain, Du Ganne. We all saw his fine work, and are correspondingly proud of him. With him at the head next year we will try again for supremacy. The night of the game the girls entertained the football team.

The following is the refrain of an original song with which the girls welcomed the players:

> There's Alfred C. Du Ganne, And Jackie Hoover, too; There's Small and Thiel and Hoover, A brave and royal crew; Ellsworth, Hart, and Doran, We know what they can do; For such an aggregation, Our hearts are staunch and true.

Girls' Basketball.

The basketball season has arrived. So far there has been a good response to the call for candidates, but there must be a large increase in the number already practicing. There must be plenty of well-trained material to make up the next season's team, and now is the time to "get into the game," to learn the game and the necessary team work, without which a team is helpless. Those who are not on the first team must not feel discouraged; they should practice and await their chance. A good spirit of sport for sport's sake should prevail, and individual desires be sacrificed to the good of the team.

The candidates are in charge of Misses Forbes and Brandenburg. Miss Elsie Sanders has kindly offered her services, and every Wednesday and Friday coaches

the girls in the "gym" at 7th and L Streets.

Miss Heine, last year's able captain, has been chosen again to lead the team this year, and Miss Hodges has been appointed to manage the general affairs. The prospect of our girls winning the championship is unusually bright. Girls of "Tech" stand by your basketball team.

The personnel of the team will be published, together with the schedule of the games, in the next number of

HAND AND MIND.

Tennis.

Through the courtesy of Mr. Woodward two courts on New York Avenue between North Capitol and First Streets, N. W., have been placed at the disposal of the school students. These will be open during good weather every school day from 2.30 to 4.30 and on

Saturdays from 9.30 to 11.30. A number have taken advantage of the privilege and have spent considerable time in this healthful and enjoyable game. It is to be hoped that more will enter and practice regularly, and that tournaments may be arranged in the spring with the other high schools.

OUR TEAM.

Hey did de diddle!

Claude Thiele played the fiddle,

While Garvey was bucking the line.

Duggy did the punting
And Mac did the grunting,
Each time as he hurdled the line.

There were Hart and Howland, Who stopped Central's plowin'; All say that their names won't fade.

As for Ellsworth and Crook,
It would fill a big book
To record the good plays that they made.

It was Horner and Small,
Who did enough for them all,
When it came to licking the boys.

And 'twas Doran's good work
Like a "Terrible Turk,"
That filled all "Tech" hearts with great joys.

C. D. G., '06.

YELLS!!!

Razoo, razoo! Johnny get your bazoo! Hipskiddyiki, rah rah, TECH!

T-E-C-H-N-I-C-A-L, Technical High School, yell like——Rah rah rah, rah rah rah, rah rah, TECH!

Hippity, hippity huss,
We're not allowed to cuss;
But never the less,
We must confess,
There's nothing the matter
With the M. T. S.

Ach, der now, donner vetter yet, We're them blacksmiths, you just bet! Rah rah rah, rah rah rah, rah rah, TECH!

Boom-a-lacka, boom-a-lacka, bow wow wow, Ching-a-lacka, ching-a-lacka, chow chow chow! Boom-a-lacka, ching-a-lacka, who are we? We're from Technical! we, we, we!

(Everyone should know the above yells.)

CALENDAR, 1905-1906.

End of First Quarter, Friday
End of First Quarter, Friday, November 24 First Quarter Matinee, Wednesday, Nov. 29 Thanksgiving Holidays, . Thursday, N.
- Joday, Nove
Friday, December 30 Christmas Holidays, Saturday, December 1
The state of outuities. December 00
out UNIDO -
Elid of Second Quarter. Friday Fol
Tilday, February
Washington's Birthday, Thursday, February
School closed, Friday, February 22
End of Third Quarter, Friday, April 6
Third Quarter Matinee, Thursday, April 19
Easter Holdays, Friday, April 13, to Sunday, April 22,
both dates inclusive
Decoration Day, Wednesday, May 30
End of Fourth Quarter, Friday, June 15
Fourth Quarter Matinee, Friday, June 15
Vacation ends, September 17, 1906

AN EXPLANATION OF THE COURSE AT "TECH."

Regarding the purpose and value of the courses in the McKinley Manual Training School, there is quite a wide-spread misunderstanding which is not confined to actual or prospective students, but extends in no small degree to graded school principals. Some people have been heard to say, "I wonder if they have wooden or real horses at 'Tech' to shoe, or if they paper houses for practice." A word of explanation is therefore in order.

Let it be understood then that no trades, as such, are taught there. He who wishes to learn only a trade should become an apprentice. The great object is the

preparing of students for their life work.

The means to this end are several, consisting of three four-year courses and one two-year. One four-year course prepares for the Normal school, another for the scientific and technical colleges, and the third is for those who expect to go to work after leaving school. The two-year course is for those who can not spend four years, but wish to get the most practical education in the shortest possible time. In general, these courses are divided into the academic and manual training work. Under the former come mathematics, history, literature, physics, chemistry, English, French, and German. The manual training consists of mechanical drawing, together with elementary work in wood-turning, pattern making, machine blacksmithing, metal working, moulding, steam engineering, and machine shopwork for the boys, and cooking, laundering, home nursing, sewing, dressmaking, and millinery for the girls.

The academic work differs from that of the other High Schools in that Latin and Greek are omitted. Slightly less academic work is required, but this has a most beneficial effect in allowing concentration on English, mathematics, science, and other essential studies, Facts show, however, that over seventy-five per cent of the students of the upper classes take more academic work than is required here or than demanded by the other high schools. The value of this work needs no explanation, but that of the manual training is not so well understood. As President Eliot, of Harvard. said, every pupil should take a course in Manual Training. It is important in this age for every man to have an elementary knowledge of the mechanic arts, and for every woman to learn domestic science. Aside from its practical application, the manual work is an invaluable training in exactness, neatness. and in the power of observation and application. Although the general course in manual training is to a large extent elementary, those who show aptitude may specialize. This has been done in numerous cases. Good paying positions as draughtsmen, machinists, milliners, and dressmakers have been opened to graduates of the school. The time devoted to manual training is between four and eight hours per week.

The value of the entire course is best shown by reference to the needs of the students. The students who attend school with the object of being benefited may be divided into those who later attend college and those who go to work after graduation. Actual count shows that between fifty and seventy-five per cent of the boys who graduate from the four-year courses at "Tech" go to college. To this class their course is valuable. The majority of the greater universities accept students on

certificate from "Tech," and almost all credit work done, including manual training, towards advanced standing. The student intending to take a scientific or technical course in a university which is deficient or lacking in mechanical equipment has a manifest advantage over those students who came from an academic preparatory school. If the student goes to a university that is well equipped, he can devote his time to advanced mechanical work, while his fellow student from the academic school is encountering the difficulties of the beginner.

The student who does not attend college has the advantage over the one from the academic high schools. It has been estimated that over nine-tenths of the world's inhabitants live by the use of their hands. How much better fitted, then, is the student who has followed a carefully planned course in manual training than the

one who has not.

The great advantage of a course in a school of this type is the fact that the manual work is a rest from the scholastic, and the two are combined so as to develop the individual symmetrically. The broad range of subjects allows a student to find that for which he is best fitted: whether a school teacher or a mechanic, a writer or a chemist, a mathematician, an engineer, a draughtsman, a milliner, or a surveyor. It has been the means of developing many who might have been dismal failures in an academic school.

That the school is appreciated by its students is shown by their earnest efforts and their patriotism, and that it does its work well can be seen from the large number

of successful graduates.

V. I. RICHARD, '06.



Mr. D. (B4 Math): Let Pierce be the sun and a point on the blackboard behind him a star. Now, an observer on the earth cannot see the star for Pierce is too bright.

Mr. H—d (A4 English): The Saxon language existed in that it passed from son to father.

Miss D-t, A4: Let us have the tea party some afternoon when I am in drawing.

Miss S-p-n: What! are you going to draw tea? Oh, no! tea does its own drawing.

Miss B—e, A⁴, says Bi S + N H₄ O H = Bi O (O-O-H) . . . Why don't you tell me what it is?

Mr. Daniel's notice to A4: All football girls are to report at basket-ball practice at 2:15 this afternoon.

From the axiom, "The whole is equal to the sum of all its parts," the members of A⁴ reason thus: That it is absolutely wrong to keep part of the section after 3.30 in punishment for what the whole did. Wonder what Mr. D—I thinks about it?

Will some one please furnish Mr. W-s-n A4 a section to lead.

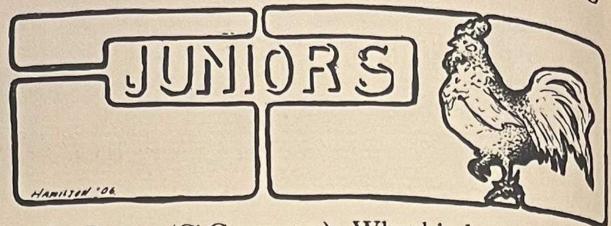
Overheard on the front steps:

"I think he is a perfect darling."

"Who?"

"Mr. C. D. G-t of B'."

Ask A' how they enjoy writing "Silence is Golden."



Mr. Brown (C³ Geometry): What kind of a pyramid has a circle for a base?

Teacher: What is A to B?

Student C3: Parallel.

Teacher: What is B to C?

Student: Parallel.

Teacher: What is the matter with you Mr. Th-p-n?

Student: Parallel.

Miss White: What is a germ?

Miss M., A3: Something that you don't want.

Heard in the sewing room:

Miss Solomon's showing a sample of half a waist to some girls.

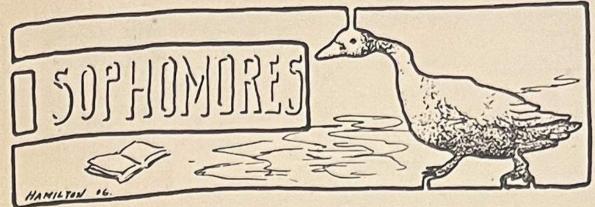
Miss A. J-n-s, B3: Oh, I would hate to make only

half of a waist.

Miss S-l-s: But it is only a sample.

Miss A. J-n-s, B3: But it would be such a waste of time.

Miss S-l-s: No, not a waist of time, but a waist of cloth.



Mr. R., F²: I do not wish to sit with the girls.
Miss W.: Well, Mr. R—, I will give you just about
three years to change your mind.

Mr. P., F², would like to know what kind of change a hot glass tube undergoes when cold water is poured on it.

Mr. Petworth, D²: The straightest line is the shortest distance between any two points.

D² has an original proposition in geometry to solve: Hyp.: Let D² stay after school.

To prove-They do not know their lesson.

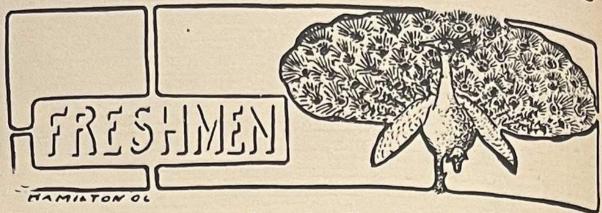
Who is the person in F2 who has the "Smile that won't come off?"

Somebody said Mr. C-f-r must have come from some military school, because he has a military set-up and shoots his feet out in front of him as he walks.

Mr. Evan's father was obliged to stay at home last week because his son "Buff" of F² wore his long trousers to school.

Mr. Muddiman, of F², would like to know where Mr. Skinner keeps the 3-16 inch putting-on tools and the keys to the tail stocks.

Miss A, of F², suggests that the moral to "Lancelot and Elaine" is: Love at first sight is fatal.



It is clearly shown that the Freshmen have not yet learned to talk. We sincerely hope they will know how by the next issue.

We want more school news! First, second, and third years. You have your year editors; they are responsible for the length of your respective columns. Write up all happenings of interest and give them to the year agent or deposit them in the HAND AND MIND box. We must have more school notes!

What the "Tech" Orchestra proposes to do this Winter.

The McKinley Manual Training School is the only high school in the city that has attempted any musical organization. This school does not stop at the word "fail;" this word is not in its vocabulary. Our orchestra must be a success, and in order to make it so the approbation and help of every student is needed. We want every performer of any musical instrument, irrespective of what year or section he is in, to give his help. A date of meeting will soon be decided upon, and all musicians will be notified and their presence expected. Remember, fellow-students, that we need your help and that your presence at the meeting will be an inspiration.

Obituary.

Twice in the short period since the beginning of the term has the school been brought to the realization that life is but fleeting.

O, Earth!

Where are the past? and wherefore had they birth? The dead are thy inheritors—and we, But bubbles on thy surface.

Byron.

It was a great shock to all to hear of the untimely end of our popular athlete, John Rosemond. Although a graduate of the two-year course last year, we had all hoped to have him with us again this year to continue his characteristic work in the various lines of his choice. He was generally liked throughout the school, and especially in his own class. The school as a whole must mourn the loss of such a valuable upholder of her laurels.

While the entire school mourns the death of our schoolmate, Hattie Brauner, it is the Senior Class that bears the greatest grief. She had been a loyal student of the school for three years and a most lovable classmate. Illness caused her to leave last session while a member of A³, but we had all hoped to see her back this year. We feel the loss of such a jovial, kind friend most keenly and extend our sympathies to the grief-stricken parents.

SOCIAL

The "Tech" dances, which were so popular last winter, have been arranged for the coming year. As usual, they are to be held at Mrs. Dyer's. The dates are as follows: November 17; December 27; January 27; March 2; April 15.

Mrs. Walton, head of the physical culture department in the high schools, entertained the first and second basketball teams of our school on Saturday evening, November 11, 1905. A fine time was had by all present.

A Halloween party was given by Miss Alva Jones at her home, Chevy Chase, Md. The house was trimmed with the usual Halloween decorations. The evening was spent in all of the old pranks and tricks which are usually played at such a time. Miss Susie Beall and Mr. Du Ganne were the lucky ones and carried off the prizes. The refreshments, to which every one did justice, were regular Halloween ones. Those present were: Misses A. Jones, M. Holtman, V. Jones, B. Dorance, M. Lawton, M. Harban, S. Beall, C. Browne, Messrs. A. I. Gardner, J. Beall, C. Burket, A. Du Ganne, C. D. Garrett, Goss and N. D. Larner, Mr. and Mrs. Jones Mr. and Mrs. Rees.

Company "C"

of the

High School Cadets

request the presence of

THE WHOLE SCHOOL

at its

December Kop

Friday Evening, December Eighth Nineteen hundred and five

Mrs. Byer's, 1517 & Street

Banring 8 to 12

The home of Miss BeDell was the scene of merry times on Halloween night. Many games much too undignified for Seniors were enjoyed. Late in the evening an elegant supper was served at which Miss Hardell proved herself very *Handy*. Those present were: Misses R. Fisher, J. Fisher, L. Hardell, M. Duchay, L. Moreland, M. BeDell and E. Wilson, Messrs. Cleveland, Mattern, Potter, Handy, Foster and Wayland.

The night of the game between "Tech" and Central the girls of the graduating classes, assisted by a few of the teachers, gave the football boys a supper. The mechanical drawing room was very prettily decorated for the occasion. After supper speeches from Mr. Hecox and the team were enjoyed by all. Later, during an intermission in the dancing, Messrs. Backus, Moss and R. Smith of last year's team spoke to those present.

REGIMENTAL

This year the organization of three companies was delayed about two weeks owing to the lack of enlist ments, but we have not fallen below the standard; we now have three of the best companies in the regiment working hard to master details. These same details perfected now, mean much toward winning the drill next spring. If allowed to slip by there will be no use of going on the field. Get together, all cadets, and work your hardest and best so that next spring we will not have three "also ran's," but will have the best companies, first, second and third. This is not asking too much of you.

And, girls, go out on Rhode Island Avenue to watch the drills. Your presence will be an incentive and inspiration to better work on the part of the cadets col-

lectively and individually.

The Rosters

COMPANY C

Captain—E. F. Leger, 1st Lieut.—F. S. Marlow, 2d Lieut.—G. C. DeNeale, 1st Sergt.—C. M. Thiele, 2d Sergt.—G. A. King, 3d Sergt.—H. A. Mooers, 4th Sergt.—H. Thompson, 5th Sergt.—W. Richards.

COMPANY D

Captain—J. E. Law, 1st Lieut.—H. Cleveland, 2d Lieut.—B. Cleveland, 1st Sergt.—R. W. Howells, 2d Sergt.—C. W. Shoemaker, 3d Sergt.—R. S. Hart, 4th Sergt.—A. P. Michener, 5th Sergt.—J. E. Redman.

COMPANY K

Captain—W. U. Steinberg, 1st Lieut.—V. P. Turnburke, 2d Lieut.—G. M. Davis, 1st Sergt.—R. W. Charlton, 2d Sergt.—M. M. Bryarly, 3d Sergt.—S. R. Truesdell, 4th Sergt.—M. C. Auerbach, 5th Sergt.—D. M. Swan.

HOW THE YEAR EDITORS WERE CHOSEN.

It is a matter of no little difficulty to select from an entire year an assistant editor for the staff of the school paper. To simplify matters, a number of students were selected from each section in the first, second and third years by the English teachers, and given subjects upon which to write in way of competition. The following articles are those of the successful students who have been named as assistant editors.

Paddle Your Own Canoe.

We, as students in "Tech," are responsible for its reputation, and, as we all love our school dearly, we must make that reputation one that will express our devotion. We have in this school the best material, and the best opportunity for development that could be desired. What we need is work, and that work must be individual work. Our paper, our athletics and our studies need just such work; why can't we have it? Answer this and you will have a key to that which is necessary for our success as a school as well as individuals. Did you ever know or hear of a student who won anything by depending upon a fellow-student? There is an old adage that says "Water will seek its own level;" so it is with honor. It will be sure to seek the one who worked the most earnestly and conscientiously. If each student in "Tech" would work with all the energy in him for the highest place in his class our school would be an overwhelming success, not only in scholarship, but in everything we undertake, for if we succeed in one direction we become ambitious for honors in other fields, and as a result do ourselves and our school justice. What we want is individual work! Know that your school is depending upon you as much as upon the other man, and when each student does his part we will have an ideal school, one of which we may justly feel proud.

VIOLA NEAL, '07.

What Does it Mean to Have a Good School Paper?

No high school or college is worth a name unless it has its attractions. Why? Young people must take an interest in their school in order to keep up its reputation. One of the best known ways is to have a school paper, one that has life, one that the pupils are sure to want, and one that is able to compete with other school papers. And what can a high school paper do? First: It can interest its readers in athletics. Athletic exercise is one of the best known ways to gain and keep strength. Every scholar is more or less interested in running, jumping, basketball, baseball or football. The school paper is, or ought to be, the means of urging scholars to indulge in such exercise. Then, too, the pupils are much interested in their own school teams, and the paper is the place to make comments about them. Again, it is most important that the pupils should be kept in touch with their teachers, and again the school paper is the place to keep the pupils interested in their benefactors.

Short stories are also helpful in keeping up a paper. Scholars should be encouraged to write short stories to be published in the paper. What they would write for others to read would help them more than so many class recitations, in the care they would take in preparing it. As for a technical high school paper, notes on technical subjects would be what was wanted. Notes on very noted inventions of the day bring the pupils more in touch with the world in which they will sometime have to battle; all such remarks will in some way help the student to aim high.

Cadet notices are useful. Social notes are always important; the pupils should be encouraged in finding acquaintances of good standing among their fellow students. Social notes are the great underlying method in bringing this about. Pupils will become interested in the various clubs and meetings through the paper. School notes on various subjects should be an important factor. Exchanges with other papers are sometimes helpful. Jokes, "Pat and Mike" stories everybody enjoys, so let the paper have plenty of them.

Last, but by no means least, advertisements should fill the last few pages of the paper. They help to pay expenses, and moreover, pupils and teachers should feel that they ought to patronize the firms that give the

advertisements to the paper.

Have we not now discovered what a good school paper is? I think so. It means a good, lively publication taking an interest in every pupil. It means a school paper of which the pupils are proud and whose reputation they are ready to support. This is what we hope the HAND AND MIND is. I say, Three cheers for the HAND AND MIND. Hip! Hip! Hurrah!

RAYMOND CHATFIELD, '08.

[&]quot;These Horseless carriages are great things."

[&]quot;Yes, indeed. I had one once."

[&]quot;What did you do with it?"

[&]quot;Outgrew it."-Ex.

"Tech's" Connecting Link

Inclination is a power for the student or the artisan, an incentive, a chief aid. When one is interested in the work in hand there is progress. An old proverb is that no one can stand still, but must either go forward or backward. What is true of an individual is true of a collection of individuals. With the proper school spirit, there is unity of purpose followed by success. Such a spirit may best be fostered by encouraging all of the forces of the school and combining all of its resources. It cannot be done by indifference upon the part of the pupils. The necessary thing is to secure a common ground upon which to act. The Technical School lacks the advantages possessed by other high schools of equal importance, since it has no general class room where the pupils may meet for exchange of ideas and incidents, and the only link which connects our sections is our school paper, the HAND AND MIND. so called because most of the work at Technical is done by the hand and the mind.

The school journal should be a means of communication and should contain suggestions and food for thought, in addition to the gossiping paragraphs which add to the variety of its contents. It should awaken in all the sections a general interest in the school as a whole.

The paper should fairly represent all sections equally. To insure this every pupil should take a personal interest in procuring for publication all the items which will amuse and benefit all other pupils. Everyone should contribute to its columns, and above all should aid in its support by sending in his name to be entered on the subscription list by paying in advance the price—fifty cents a year.

The editor of the paper should be capable of separating the wheat from the chaff, as the old saying is, and should also possess tact and judgment that will prevent the giving of offense. As the paper is to represent the whole school, it should have an active representation in each section.

ELSIE SHINN, '09.

School Teacher—"What little boy can tell me where is the home of the swallow?"

Bobby-"I kin, please."

School teacher—"Well, Bobby?"

Bobby—"The home of the swallow is the stummick."—Ex.

FACULTY

First comes our director, J. A. C., A worthier one there is none than he.

Mr. A. I. Gardner, principal of "Tech," Quickly proceeds our bad schemes to wreck.

Miss Ida M. Daly, of the E. H. S., Her knowledge of English now imparts to the "Techs."

Mr. Frank C. Daniel, a mathematician of note, Soon shows it is useless to learn by rote.

Mr. Louis Mattern, a chemist by trade; Is also an orator of highest grade.

Mr. Clarence M. Hall can explain 'tis true; The most wonderful things in physics to you.

Miss Wilhelmine Hartman, a teacher well-known, In French and in German oft makes you atone.

Mr. Alexis B. Many, the artist so true, Is surprised that design doesn't appeal to you.

Mr. Mark R. Woodward soon has you precise; For his is the drawing by mechanic device.

Miss Marion White who can cook and nurse too, Soon shows the girls just how they must do.

Miss Isabelle Solomons, who knows her not? By the hats, the hats, and oh, what a lot!

Mr. Frank E. Skinner, professor of machines, Has made for the cadets many good schemes.

Of assistant teachers there's such a long list, Upon having all named, please do not insist.

Welcome to Miss Daly.

We all feel that we are to be congratulated upon having Miss Daly as the head of our English Department. Miss Daly has won, during her years of teaching at Eastern High School, the reputation of being equalled by few in the results that she has obtained from her classes. Although she has been with us but a short time, she seems to have won the hearts of both teachers and pupils and we only hope that she will enjoy being with us as much as we enjoy having her.

It is with great pleasure that we see several new teachers added to our illustrious faculty. Mr. Bruce in the Physics Department, Miss Muckenhoupt as a teacher of German and English, Mr. Miller in Mechanical Drawing and Mr. Whitbeck in Freehand Drawing.

[&]quot;No, I am not hurt," she replied, somewhat petulantly.

[&]quot;Then why do you cry?"

[&]quot;I am crying because I am mad."

[&]quot;What are you mad at?"

[&]quot;I am mad because I can't feel that I aint hurt!"—
Boston Transcript.

ALUMNI

The staff feels indebted to Mr. Gardner, Mr. Mat. tern and Mr. Hall for their aid in procuring news from the graduates.

Our Graduates.

As the years roll by, it is always interesting to note what progress the graduates of "Tech" are making, and as this is the beginning of another school year it is but fitting that an account be given of all those from whom we have heard. They are found scattered far and wide, some earning their daily bread and others fitting themselves at colleges and universities for their life work.

Class of 1905.

Among the members of this class who have entered the university here at home, namely, G. W. U., are Rouzer, Curran, Fuller (last year's editor of Hand and Mind), Rowley, Pipes, Kisseleff and Lamb. The halls of the university are also graced by the presence of Misses Claffin and Wells.

Backus "holds down" a good position for the District Pumping Station and is increasing the knowledge he gained at "Tech" by a course at G. W. U.

Ingersoll now holds a position in the U. S. Bio-Chemical Laboratory, Bureau of Animal Industry.

Captain Cunningham starts off well at Worcester Tech.

Miss Merry delighted her friends at "Tech" with a visit.

Crowe is employed at the Bureau of Standards during the day and in pursuing a night course of chemistry at G. W. U.

Veihmeyer who is attending G. W. U. nights, is employed as draftsman in a patent lawyer's office, as is Greenberg also.

Hough is also a night student at G. W. U. in the Mechanical Engineering Department and is working as draftsman in the Navy Department during the day.

Lowenstein, Mangum and Dulin are working for the C. and P. Telephone Co. as draftsmen.

W. Hunt, Darrah and Oleson are keeping Cunningham company at Worcester.

Ourand, Fulton and Hemingway are studying at Cornell University.

Fenderson is at present clerk for the contractor of the Connecticut Avenue Bridge.

Butts is with the Fessenden Wireless Telegraph Station of this city.

Corning is a draftsman in the Southern Railway office.

Braly is studying in the Arkansas State University, Fayetteville, Ark.

Parsons is taking a preparatory course in the Lawrenceville Academy, Lawrenceville, N. J. He will graduate this year and then enter Cornell.

Ramey is engaged in night work at the Filtration Plant. He is now taking a post-graduate course in German and Mathematics at "Tech."

Stoddard and Corcoran are upholding "Tech's" honor at Lehigh.

Patterson is at Dartmouth.

Hahn has passed all the entrance "exams" and been admitted at Boston Tech. free from conditions.

Sullinger, who is engaged in engineering work for the Erie R. R., says in a letter to the manager: "I sincerely hope that the HAND AND MIND of this year will be a success, financially and otherwise. Remember me to my friends at the school. Although I am many miles from 'Tech.' I am there in spirit and thought."

Inquirer—When is the next train to Albany?
Stationmaster—Twelve o'clock, sir.
Inquirer—Isn't there one before that?
Stationmaster—No, sir, we never run one before the next.

Class of 1904.

McElfresh, whose valedictory attracted wide and fav-McEllicon, continues to maintain a high standing at Lehigh.

Ballenger now holds a responsible position in the

District Engineer Corps.

Wetzel, a hero of the race track, holds a position along scientific lines in Carnegie Institute. He has along selectived a promotion. Congratulations.

Butman is a student at Dartmouth.

Taylor has passed examinations in chemistry and physics at Van Rensselaer University with credit, which gave him an advanced rating.

Class of 1903

Senior is now pursuing a course in engineering at G. W. U. He has favored "Tech" at football practice. No one is more welcome, Dick.

Heine pursues with credit an engineering course at Cornell. Hereafter, when he visits his home no excuse will be accepted for not again gracing "Tech" with his presence.

Wilson is doing excellent service as an assistant in the chemical laboratory in the Department of Agriculture.

Daniels is now a draftsman in the War Department.

Schmitt is still employed with the Southern Railway, where he has had several promotions.

Marston is making progress in the insurance business.

Root and Lutz are both in New York, the former engaged in electrical work and the latter in mercantile work.

Wagner is employed at the C. and P. Telephone Co., of this city.

Carty is a machinist at the Bureau of Standards and is taking a night course at G. W. U.

Swayne, who is also taking a night course at G. W. U., is now a clerk in the Agricultural Department.

Class of 1902.

Among the members of this class at Cornell will be found Reynolds, Eagan, Fay, Hemingway and Lesh.

Stentz is a student at Worcester Tech.

Baker has returned to this country from the Philippines.

Hutchinson graduated in law last year from the G. W. U.

Shreiner is employed at the Home Savings Bank.

Suman is engaged in electrical work in New Jersey.

Tomkins is a student at G. W. U.

Rich graduated from Cornell last year, having completed the four-year course in three years.

Ex-Students.

Frank King resigned his position as master-of-arms 1st class, Navy, to accept a position with the Standard Oil Company. Big thing for King every time.

W. L. Thompson, last year a member of '93, passed his entrance examinations creditably at Wisconsin University. In a letter he speaks commendably of the educational advantages at "Tech."

EXCHANGES

Although this is our first issue and it is so early in the school year, we have received a number of exchanges. Some of them were on our list last year while a number are new ones. We hope before the next issue to have received all of our old friends in exchange.

Lindey Hall Echo, from Lititz, Pa. This paper is a good one, and shows what girls can do in regard to running a paper.

The Canary and Blue, from the Allentown High School, Pennsylvania.

The Mission. The Mission High School, San Francisco, Cal.

The Easterner, from Eastern High School, Washington, D. C. In every way this is a fine paper. One of the best we receive in exchange.

The Pharos, from the Wesleyan University of West Virginia.

The High School Review, from Shamokin, Pa. This one is a good example of school spirit in the paper.

The Nautilus, from Jacksonville, Ill.

Schuylkill Seminary Narrator, from Reading, Pa.

The Tooter, from South Omaha High School. Would it not be a much better paper if it were not published bi-weekly? Each issue would then contain more.

The Balance Sheet, from Business High School, Washington, D. C.

The Review, Streator, Ill., contains some very good things.

The Western, of Western High School, Washington, D. C., arrives at the last moment as our paper goes to press.

We would like to know if the path from Central High School to our exchange is so crooked that The Review was lost, or was it not sent?

Boy (to girl with flying hair): "Why Miss—, how winsome (windsome) your hair looks."—Ex.

A FEW FACTS.

'Tis not the man whose feet are large,
Who makes the swiftest sprinter;
'Tis not the girl with temper hot,
Who best endures the winter;
'Tis not the hen that cackles most,
That makes the steadiest layer;
'Tis not the biggest head of hair
That makes the football player.—Ex.

LATER ATHLETICS

"TECH'S" LATE VICTORIES.

"Tech" Vanquishes Eastern.

(From the Washington Post.)

In the final interscholastic football game of the season, Technical High School defeated Eastern by 30 to 0. The teams met in the high school series, and the contest ended a tie, 6 to 6, so yesterday was the playoff, although it does not count in the championship standings.

"Tech" outplayed her rivals from the beginning, so much so that the Maroon and Gray followers are now quite hopeful of making a creditable showing at New York next Thursday, when Coach Hecox's chargers

meet the High School of Commerce.

In the first half, "Tech" scored a touchdown and a goal from the field, and Eastern was so weakened in the second half that the victors rolled up twenty-one

more points.

The most spectacular play of the game was made in the last minute, when Ellsworth, getting the ball after the kick-off, ran nearly one hundred yards for a touchdown. To Du Ganne goes the honor of making the first goal from the field scored in a game between local high schools this season. In the latter part of the first half "Tech" carried the ball to Eastern's 10-yard line, but Du Ganne was penalized for holding, and just to show that it made no difference, the winners' leader booted the leather between the uprights from the 25-yard line.

So strong was "Tech's" defense that the Capitol Hill players were able to make but few gains during the game. For the losers, Perry, the acting captain, and Farmer, the half back, did the best work.

THE LINE-UP:

Technical.	Positions.	Eastern.
Ellsworth	left end	Brown
Du Ganne	left tackle	Thompson
Uart	left guardA. Richardson	, H. Richardson
Hait Doran	center	·····Swank
Kneesi, Dolan	right guard	Pyles Iones
Howland, Small	'-be tooklo	Oldham U- 1
MrCarthy	right tackle	lair T. 1.1
Brewster, Crook	right endSincl	all, Lewksberry
Thiele	quarter back	Perry
Bryan	left half back	·····Farmer
Brown	right half back	Martin
Garvey, Sturgis	full back	Palmer
Touchdowns-Du	Ganne (2), Ellsworth (2), and McCarth	ny. Goals from
touchdown-Thiele.	Goal from placement—Du Ganne.	

Basketball.

"Tech" 9, Central 6. Our girls showed in this game that they were superior in every way to the Central girls. More team work was not needed by "Tech," as was the case last year. Our captain, Miss Heine, distinguished herself by throwing a goal from the middle of the gym. Let us hope that our girls keep up this high-class work, and at the end of the season come out champions.

"What is that poet laboring over?"

"Trying to find a word to rhyme with Pabst."

"Ah! studying lager-rhythms; I see."-Ex.

"I never knew a building could see."

"Didn't, eh? Well did you ever hear of a building without a site?"—Ex.

Teacher—Is that composition original? Pupil—No, ma-am; I made it up myself.—Ex.

"Wy son," said his father, solemnly, "When you see a boy always loafing about the street corners, what place in life do you suppose he is fitting himself for.?
"To be a policeman."

Q. E. D.—Quit educating Dummies.—Ex.

Teacher—Fools can ask questions that wise men can not answer.

Johnnie—I suppose that is the reason so many pupils flunk.—Ex.

District Visitor—I've just had a letter from my son Reggie, saying he has won a scholarship. I can't tell you how delighted I am, I—

Rustic Party—I can understand yer feelings, mum. I felt just the same when our pig won a medal at the Agricultural Show.—Ex.

There was a boy in our school, who wasn't over-wise,

He went down to the corner store, and bought five nickel pies;

And 'ere he stowed those pies away, he found they felt like lead,

And now he holds two aching spots, and one of them's his head.

—Horace Mann Record.

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